			Me
	Application No.	Applicant(s)	
	10/613,223	CELLIERS ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Allen C. Ho	2882	
The MAILING DATE of this communication apperature of the communication apperature of the series of allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in t ) or other appropriate commun IGHTS. This application is sul	his application. If not included ication will be mailed in due cours	
1. $\boxtimes$ This communication is responsive to <u>application filed on 0</u>	<u>1 July 2004</u> .	•	
2. X The allowed claim(s) is/are <u>1-20</u> .			
3.   The drawings filed on 01 July 2003 are accepted by the Ex	xaminer.		
4. ☐ Acknowledgment is made of a claim for foreign priority unas ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. ☐ A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 10 ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date  (b) ☐ including changes required by the attached Examiner Paper No./Mail Date	e been received. e been received in Application ocuments have been received in Application of this communication to file and ENT of this application.  Initted. Note the attached EXAM res reason(s) why the oath or dest be submitted.  son's Patent Drawing Review (c.	Non this national stage application from this national stage application from the requirements of the stage application from the requirements.  INER'S AMENDMENT or NOTIC eclaration is deficient.  PTO-948) attached	nents
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	the header according to 37 CFR	1.121(d).	
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>			he
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 Notice of Info	rmal Patent Application (PTO-152	<b>\</b>
<ol> <li>Notice of References Cited (P10-092)</li> <li>Dotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	6. ☐ Interview Sun	· · · · · ·	1
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./M	ail Date mendment/Comment	
Paper No./Mail Date <u>112003</u>	_		
Examiner's Comment Regarding Requirement for Deposit     Piological Material		atement of Reasons for Allowanc	е
of Biological Material	9.  Other		
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## **DETAILED ACTION**

## Allowable Subject Matter

1. Claims 1-20 are allowed.

The following is an examiner's statement of reasons for allowance: 2.

With regard to claims 1-10, the prior art fails to teach or fairly suggest a method for measuring the rise time of an x-ray pulse comprising directing an x-ray pulse onto an area of the dielectric material to produce a reflectivity change in the dielectric material and directing a polarized probe beam at wavelength  $\lambda_1$  onto the area of the dielectric material as the reflectivity changes to produce a reflected beam as claimed in claim 1. Although Hagelstein et al. disclosed a method providing a dielectric material that has a material property of having zero effective reflectance at a wavelength  $\lambda_1$  (corresponding to an absorption wavelength of the dielectric material) directed onto the dielectric material and directing an x-ray pulse onto an area of the dielectric material to produce a reflectivity change in the dielectric material, Hagelstein et al. failed to teach the step of directing a polarized probe beam at wavelength  $\lambda_1$  onto the area of the dielectric material as the reflectivity changes to produce a reflected beam.

With regard to claims 11-20, the prior art fails to teach or fairly suggest an apparatus for measuring the rise time of an x-ray pulse comprising means for directing an x-ray pulse onto an area of the dielectric material to produce a reflectivity change in the dielectric material and means for directing a polarized probe beam at wavelength  $\lambda_1$  onto the area of the dielectric material as the reflectivity changes to produce a reflected beam as claimed in claim 11.

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Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure:

(1) Opsal et al. (U. S. Patent No. 6,408,048 B2) disclosed an apparatus for analyzing

samples using combined thermal wave and x-ray reflectance measurements.

(2) Katayama et al. (U. S. Patent No. 5,617,460) disclosed a method of increasing

index of refraction of silica glass.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Allen C. Ho whose telephone number is (571) 272-2491. The

examiner can normally be reached on Monday - Friday from 8:00 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Edward J. Glick can be reached at (571) 272-2490. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

allen C Ho

Allen C. Ho Patent Examiner Art Unit 2882

27 November 2004